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Subject: International PCT Application PCT/CA2005/000209
Filed on February 28, 2005
In the name of Energy 20/20 (Canada) Corporation
Title: DISC VALVE SYSTEM

STATEMENT UNDER ARTICLE 19(1) PCT

Sirs:

Claims 1, 102 and 252 were amended in order to clarify that the intermediate seal member is mounted within the engine cylinder at a junction of the rotating disc and the engine cylinder so as to seal the combustion chamber. The foregoing is clearly shown throughout the figures where the intermediate seal members of the invention are configured to be fitted within the engine cylinder, whereas D1 teaches a ring which engages a groove in the periphery of the disc valve. As clearly shown in Figures 22 and 23, the seal member of the invention is to be fitted within the cylinder and the top portion of the intermediate seal member is continuous with the rim of the engine cylinder and is not fitted within the disc valve.

Applicant also notes that the Examiner has found that claim 7 is novel and inventive in light of the prior art, which underlines that, the inner face of the disc valve is in a slidable relationship with the intermediate seal member. Moreover, claim 52 was also found to have novelty and inventive step by the Examiner and adds that the intermediate seal member has a top face, a bottom face and an outer surface therebetween and that the top face is in a slidable contact



relationship with the rotating disc so as to provide for the disc to rotate with respect thereto.

Claims 1, 102 and 252 as amended are not taught nor anticipated by any of the prior art documents cited by the examiner.

Claims 55, 56, 57, 156, 157, 158, 256, 257 and 258 have been amended in order to clearly state as shown in the Figures that the stationary seal can be an additional ring seal that expands beyond the outer surface of the intermediate seal member and is in sealing contact with the internal periphery of the cylinder near its opening

Applicant respectfully contends that claim 203 is patentable in light of D5. Applicant made only clerical amendments to claim 203.

Applicant has amended claims that did not comply with Article 6 PCT.

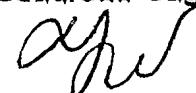
Applicant has added new claims 272-284.

- Claim 272 is drawn to a disc valve system for a piston engine that comprises a disc valve, a cylinder and an intermediate seal and further defines the factors that determine the periodic cyclic intervals for bringing the ports of the disc valve in alignment with the exhaust and intake ports of the cylinder head. Claim 273 further defines an additional determinant factor.
- Claim 274 is drawn to a multi-functional disc that is mounted between a cylinder head and an engine cylinder and that comprises a generally flat and single integral body, this body comprises a gear, a valve, a turbulator and a seal.
- Claim 275 is drawn to an intermediate seal member mounted within the cylinder of an engine at a junction of the cylinder and the disc valve, this seal member being responsive to the pressure within the combustion chamber. Dependent claims 276-284 define additional characteristics

The foregoing added claims are fully supported by the description as filed and as such no new matter has been added.

Respectfully submitted,

Goudreau Gage Dubuc



Tom Vouloumanos

TV/al
Enc.